

Aremco Aremco-Bond™ 2318 High Performance Epoxide

Category : Polymer , Adhesive , Thermoset , Epoxy , Epoxy Adhesive

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aremco-Aremco-Bond-2318-High-Performance-Epoxide.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.58 g/cc	1.58 g/cc	
Viscosity	16000 cP	16000 cP	mixed viscosity
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	89	89	
Flexural Strength	97.2 MPa	14100 psi	ASTM D790
Shear Strength	7.826 MPa	1135 psi	ASTM D1002-94

Thermal Properties	Metric	English	Comments
CTE, linear	70.2 $\mu\text{m/m-}^{\circ}\text{C}$	39.0 $\mu\text{in/in-}^{\circ}\text{F}$	
Thermal Conductivity	0.634 W/m-K	4.40 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	120 °C	248 °F	
Minimum Service Temperature, Air	-55.0 °C	-67.0 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.00e+15 ohm-cm	3.00e+15 ohm-cm	
Dielectric Constant	4.8 @Frequency 1000 Hz	4.8 @Frequency 1000 Hz	
Dielectric Strength	18.1 kV/mm	460 kV/in	
Dissipation Factor	0.014	0.014	

Processing Properties	Metric	English	Comments
Cure Time	120 min @Temperature 93.3 °C	2.00 hour @Temperature 200 °F	recommended cure

Processing Properties	240 min Metric	4.00 hour English	Comments recommended cure
	@Temperature 20.0 °C	@Temperature 68.0 °F	
	1440 - 2880 min	24.0 - 48.0 hour	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Pot Life	42.0 min	42.0 min	100 gm mass
	@Temperature 25.0 °C	@Temperature 77.0 °F	

Descriptive Properties	Value	Comments
Chemical Resistance	Excellent	
Color	Black	
Mix Ratio	100:12	

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